



DEFENSE INFORMATION SYSTEMS AGENCY

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IN REPLY
REFER
TO:

Joint Interoperability Test Command (JTE)

3 Oct 11

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Special Interoperability Test Certification of the Fortress Technology ES520 and ES210 Wireless Access Bridge from Release 5.3.0.1280 to Release 5.4.0.1522

- References:
- (a) Department of Defense Directive 4630.05, "Interoperability and Supportability of Information Technology (IT) and National Security Systems (NSS)," 5 May 2004
 - (b) Chairman, Joint Chiefs of Staff Instruction 6212.01E, "Interoperability and Supportability of Information Technology and National Security Systems," 15 December 2008
 - (c) through (e), see Enclosure 1

1. References (a) and (b) establish the Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification.

2. The Fortress Technology ES520 and ES210 with Release 5.3.0.1280 was originally certified for joint use in the Defense Information System Network as a Wireless Access Bridge (WAB). The vendor submitted a Desktop Review (DTR) to close Information Assurance (IA) Plan of Action and Milestones (POA&M) with version 5.4.0.1522. The SUT provides Wireless Local Area Network Access System (WLAS) capabilities but the system is not certified to provide WLAS functionality because of outstanding discrepancies. The United States Army Information Systems Engineering Command Technology Integration Center (USA ISEC TIC) conducted testing using wireless requirements derived from the Unified Capabilities Requirements (UCR), Reference (c), and wireless test procedures, Reference (d). The JITC will verify the SUT's certification status during operational deployment. Any new discrepancy noted in the operational environment will be evaluated for impact on the existing certification. These discrepancies will be adjudicated to the satisfaction of Defense Information Systems Agency via vendor POA&Ms that address all new critical Test Discrepancy Reports within 120 days of identification. No other configurations, features, or functions, except those cited within this memorandum, are certified by JITC. This certification expires upon changes that affect interoperability, but no later than three years from the Unified Capabilities Approved Product List memorandum dated 20 January 2010.

3. JITC approves the extension of this certification for DTR 1 submitted to close out IA finding. Approval is based on Verification and Validation (V&V) IA testing conducted on 12 June 2011 by the USA ISEC TIC, a Department of Defense (DoD) Component Test Lab, and DISA IA

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Certification Authority (CA) approval. The results of the tests for this product are published in a separate IA report, Reference (e). The DISA IA CA approval was granted on 31 August 2011. JITC and USA ISEC TIC review of the DTR submission determined that there was no impact on interoperability.

4. The interface, Capability Requirements (CR), Functional Requirements (FR), and component status of the SUT are listed in Table 1. The threshold Capability/Functional requirements for Wireless Products are established by Section 5.3.1 of Reference (c) and were used to evaluate the interoperability of the SUT.

Table 1. SUT Interface Interoperability Status

Interface	Critical (See note 1.)	UCR Reference	Threshold CR/FR Requirements (See note 2.)	Status	Remarks																								
WLAS																													
802.11a	N	5.3.1.7.2.3	1, 2, 3, 5, and 7	Not Certified	See note 3.																								
802.11b	N	5.3.1.7.2.3	1, 2, 3, 5, and 7	Not Certified	See note 3.																								
802.11g	N	5.3.1.7.2.3	1, 2, 3, 5, and 7	Not Certified	See note 3.																								
802.16	N	5.3.1.7.2.3	1, 2, 3, 5, and 7	NA	See note 4.																								
802.3i	N	5.3.1	1, 2, 3, 5, and 7	Not Certified	See note 3.																								
802.3u	N	5.3.1	1, 2, 3, 5, and 7	Not Certified	See note 3.																								
802.3z	N	5.3.1	1, 2, 3, 5, and 7	NA	See note 4.																								
802.3ab	N	5.3.1	1, 2, 3, 5, and 7	NA	See note 4.																								
WAB																													
802.11a	N	5.3.1.7.2.3	1, 2, 3, 6, and 7	Certified																									
802.11b	N	5.3.1.7.2.3	1, 2, 3, 6, and 7	Certified																									
802.11g	N	5.3.1.7.2.3	1, 2, 3, 6, and 7	Certified																									
802.16	N	5.3.1.7.2.3	1, 2, 3, 6, and 7	NA	See note 4.																								
802.3i	N	5.3.1	1, 2, 3, 6, and 7	Certified																									
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802.3z	N	5.3.1	1, 2, 3, 6, and 7	NA	See note 4.																								
802.3ab	N	5.3.1	1, 2, 3, 6, and 7	NA	See note 4.																								
WEI																													
802.11a	N	5.3.1.7.2.3	1, 3, and 4	NA	Products tested did not include WEIs.																								
802.11b	N	5.3.1.7.2.3	1, 3, and 4	NA																									
802.11g	N	5.3.1.7.2.3	1, 3, and 4	NA																									
802.16	N	5.3.1.7.2.3	1, 3, and 4	NA																									
<p>NOTES:</p> <ol style="list-style-type: none"> The UCR does not define any minimum interfaces. The SUT must minimally provide one of the wired interfaces (to the ASLAN) and wireless interfaces (subscriber). The SUT need not provide wireless capabilities; however, if such capabilities are present, the SUT must meet all threshold CR/FR requirements. The SUT provides WLAS functionality. This functionality is not certified because of outstanding test discrepancies adjudicated to be critical to certification. These discrepancies are not applicable to providing the wireless bridge functionality. The SUT does not provide these conditionally required interfaces. <p>LEGEND:</p> <table> <tr> <td>ASLAN</td> <td>Assured Services LAN</td> <td>SUT</td> <td>System Under Test</td> </tr> <tr> <td>CR</td> <td>Capability Requirement</td> <td>UCR</td> <td>Unified capabilities Requirements</td> </tr> <tr> <td>FR</td> <td>Functional Requirement</td> <td>WAB</td> <td>Wireless Access Bridge</td> </tr> <tr> <td>ID</td> <td>Identification</td> <td>WEI</td> <td>Wireless End Instrument</td> </tr> <tr> <td>LAN</td> <td>Local Area Network</td> <td>WLAS</td> <td>Wireless LAN Access System</td> </tr> <tr> <td>NA</td> <td>Not Applicable</td> <td></td> <td></td> </tr> </table>						ASLAN	Assured Services LAN	SUT	System Under Test	CR	Capability Requirement	UCR	Unified capabilities Requirements	FR	Functional Requirement	WAB	Wireless Access Bridge	ID	Identification	WEI	Wireless End Instrument	LAN	Local Area Network	WLAS	Wireless LAN Access System	NA	Not Applicable		
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Table 2. SUT Capability Requirements and Functional Requirements Status

CR/FR ID	Capability/ Function	Applicability (See note 1.)	UCR Reference	Status	Remarks
1	General Wireless Requirements				
	IPv6	Required	5.3.1.7.2.1	Met	See note 2.
	WiFi Certified	Required (See note 3.)	5.3.1.7.2.1	Met	See note 4.
	Redundancy	Required	5.3.1.7.2.1	Met	
	FIPS 140-2 Level 1	Required	5.3.1.7.2.1	Met	See note 4.
	Latency	Required	5.3.1.7.2.1	Met	
	Traffic Prioritization	Required	5.3.1.7.2.1	Met	
	Wireless STIGs	Required	5.3.1.7.2.1	Met	See note 5.
2	WIDS				
	Continuous Scanning	Required	5.3.1.7.2.2	Not Met	See note 6.
	Location-sensing	Required	5.3.1.7.2.2	Not Met	See note 6
3	Wireless Interface Requirements				
	Interface Standards	Required (See note 7.)	5.3.1.7.2.3	Met	
	802.11 Interface Standards	Required (See note 8.)	5.3.1.7.2.3	Met	
	802.16 Interface Standards	Required (See note 9.)	5.3.1.7.2.3	NA	See note 10.
	Fixed / Nomadic WEIs	Required (See note 11.)	5.3.1.7.2.3	NA	See note 12.
4	Wireless End Instruments				
	VoIP Solution	Required (See note 13.)	5.3.1.7.2.4	NA	
	Access Methods	Required (See note 14.)	5.3.1.7.2.4	NA	
	Call Control Authentication	Required (See note 13.)	5.3.1.7.2.4	NA	
	Call Termination	Required (See note 11.)	5.3.1.7.2.4	NA	
5	WLAS Requirements				
	Loss of Call upon WLAS failure	Required (See note 15.)	5.3.1.7.2.5	Met	See note 16.
	Maximum supported EIs	Required (See note 15.)	5.3.1.7.2.5	Not Met	See notes 16 and 17.
	MOS	Required (See note 15.)	5.3.1.7.2.5	Not Met	See notes 16 and 17.
	Roaming	Required (See note 15.)	5.3.1.7.2.5	Met	See notes 16.
6	Wireless Access Bridge				
	Individual Interface Standards	Required (See note 8.)	5.3.1.7.2.6	Met	For specified interfaces.
	Maximum Voice Calls Transported	Required (See note 8.)	5.3.1.7.2.6	Met	See notes 16 and 17.
	Voice MOS	Required (See note 8.)	5.3.1.7.2.6	Met	See note 16.
	E2E BER	Required (See note 8.)	5.3.1.7.2.6	Met	
	Secure Voice Transmission	Required (See note 8.)	5.3.1.7.2.6	Met	See note 16.
	Call Signaling Transport	Required (See note 8.)	5.3.1.7.2.6	Met	See note 16.
	Latency	Required (See note 8.)	5.3.1.7.2.6	Met	
	Jitter	Required (See note 8.)	5.3.1.7.2.6	Met	
	WLAS/WAB Combination	Required (See note 8.)	5.3.1.7.2.6	Met	

Table 2. SUT Capability Requirements and Functional Requirements Status (continued)

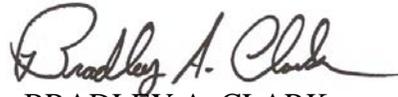
CR/FR ID	Capability/ Function	Applicability (See note 1.)	UCR Reference	Status	Remarks																																																
7	ASLAN Requirements Applicable to Wireless Products																																																				
	General Performance Parameters	Required	5.3.1.3	Met																																																	
<p>NOTES:</p> <ol style="list-style-type: none"> The SUT need not provide wireless capability. However, if wireless capability is present, the SUT must meet the wireless requirements (as applicable for product type WLAS, WAB, or WEI) in order to be certified. Vendor demonstrated IPv6 QoS and IPv6 packet transfer via Ethernet. Only applies to 802.11 interfaces. Verified via vendor LoC. Vendor met STIG requirements with submitted mitigations. Not Supported at time of test. Individual sub-requirements apply to specific interface types. Applicable to 802.11 interfaces only. Applicable to 802.16 interfaces only. SUT does not provide an 802.16 interface. Applies to WEIs; not applicable to WLASs or WABs. SUT does not include WEIs. The WEI is certified in conjunction with a call-control agent (VoIP solution). The WEI may be dedicated service (single traffic type) or shared service (voice, video, and data). Specified requirements are only applicable to WLAS products. Verified via emulated phone (Ixia). The SUT supports the ability to limit the number of subscribers, thereby controlling number of voice subscribers. <p>LEGEND:</p> <table> <tr> <td>802.11</td> <td>IEEE set of wireless standards in the 2.4,3.6, and 5 GHz</td> <td>MOS</td> <td>Mean Opinion Score</td> </tr> <tr> <td>802.16</td> <td>IEEE series of wireless broadband standards</td> <td>STIG</td> <td>Security Technical Implementation Guide</td> </tr> <tr> <td>BER</td> <td>Bit Error Rate</td> <td>SUT</td> <td>System Under Test</td> </tr> <tr> <td>CR</td> <td>Capability Requirement</td> <td>UCR</td> <td>Unified Capabilities Requirements</td> </tr> <tr> <td>E2E</td> <td>End-to-end</td> <td>VoIP</td> <td>Voice over Internet Protocol</td> </tr> <tr> <td>EIs</td> <td>End Instruments</td> <td>WAB</td> <td>Wireless Access Bridge</td> </tr> <tr> <td>FIPS</td> <td>Federal Information Processing Standard</td> <td>WEI</td> <td>Wireless End Instrument</td> </tr> <tr> <td>FR</td> <td>Functional Requirement</td> <td>WIDS</td> <td>Wireless Intrusion Detection System</td> </tr> <tr> <td>GHz</td> <td>Gigahertz</td> <td>WiFi</td> <td>trademark of the Wi-Fi Alliance that refers to a range of connectivity technologies including WLAN</td> </tr> <tr> <td>IEEE</td> <td>Institute of Electrical and Electronics Engineers</td> <td>WLAN</td> <td>Wireless LAN</td> </tr> <tr> <td>IPv6</td> <td>Internet Protocol version 6</td> <td>WLAS</td> <td>Wireless LAN Access System</td> </tr> <tr> <td>LAN</td> <td>Local Area Network</td> <td></td> <td></td> </tr> </table>						802.11	IEEE set of wireless standards in the 2.4,3.6, and 5 GHz	MOS	Mean Opinion Score	802.16	IEEE series of wireless broadband standards	STIG	Security Technical Implementation Guide	BER	Bit Error Rate	SUT	System Under Test	CR	Capability Requirement	UCR	Unified Capabilities Requirements	E2E	End-to-end	VoIP	Voice over Internet Protocol	EIs	End Instruments	WAB	Wireless Access Bridge	FIPS	Federal Information Processing Standard	WEI	Wireless End Instrument	FR	Functional Requirement	WIDS	Wireless Intrusion Detection System	GHz	Gigahertz	WiFi	trademark of the Wi-Fi Alliance that refers to a range of connectivity technologies including WLAN	IEEE	Institute of Electrical and Electronics Engineers	WLAN	Wireless LAN	IPv6	Internet Protocol version 6	WLAS	Wireless LAN Access System	LAN	Local Area Network		
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5. In accordance with the Program Manager’s request, no detailed test report was developed. The JITC distributes interoperability information via the JITC Electronic Report Distribution (ERD) system, which uses Unclassified-But-Sensitive Internet Protocol Router Network (NIPRNet) e-mail. More comprehensive interoperability status information is available via the JITC System Tracking Program (STP). The STP is accessible by .mil/gov users on the NIPRNet at <https://stp.fhu.disa.mil>. Test reports, lessons learned, and related testing documents and references are on the JITC Joint Interoperability Tool (JIT) at <http://jit.fhu.disa.mil> (NIPRNet). Information related to Defense Switched Network (DSN) testing is on the Telecom Switched Services Interoperability (TSSI) website at <http://jitc.fhu.disa.mil/tssi>.

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6. The JITC point of contact is Ms. Lisa Fardsalehi, commercial 520.538.5531 or DSN 879.5531; e-mail address is lisa.fardsalehi@disa.mil. The JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The Defense Information Systems Agency Unified Capability Coordination Office tracking number is 0923602.

FOR THE COMMANDER:



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Acting Chief
Battlespace Communications Portfolio

1 Enclosure a/s

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ADDITIONAL REFERENCES

- (c) Office of the Assistant Secretary of Defense Document, "Department of Defense Unified Capabilities Requirements 2008, Change 1," 22 January 2010
- (d) Joint Interoperability Test Command Document, "Unified Capabilities Test Plan (UCTP)"
- (e) United States Army Document, "Information Assurance (IA) Finding Summary for Technology ES520, ES210 Release 5.3.0.1280 (Tracking Number 0923602) Wireless Product," August 2011

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